

**1B**

PRIMERS CANNOT BIND

ATTTAATGTTTAAACACCGGGTGGACTTAATTAACTAGTGCCTTA

HAIRPIN A

TAAATTTACAAATTTGTAGCCCACTGAATTAAATTGAAAGTCCGAT

**1C**

PRIMER BINDING REGION

S'ACCGAGTCGACTATCCGGGAACA

HAIRPIN D (p53 exon 9)

3TGACGGTTTGTGTGTCGAGGAGGGTGGTTTCTTCTTGGTGACCTACTCTTATAAGTGGAGTCAA

PRIMER BINDING REGION

3'ACGCCACTCTCCGACCTCTCAGCA

**FIGURE 1**

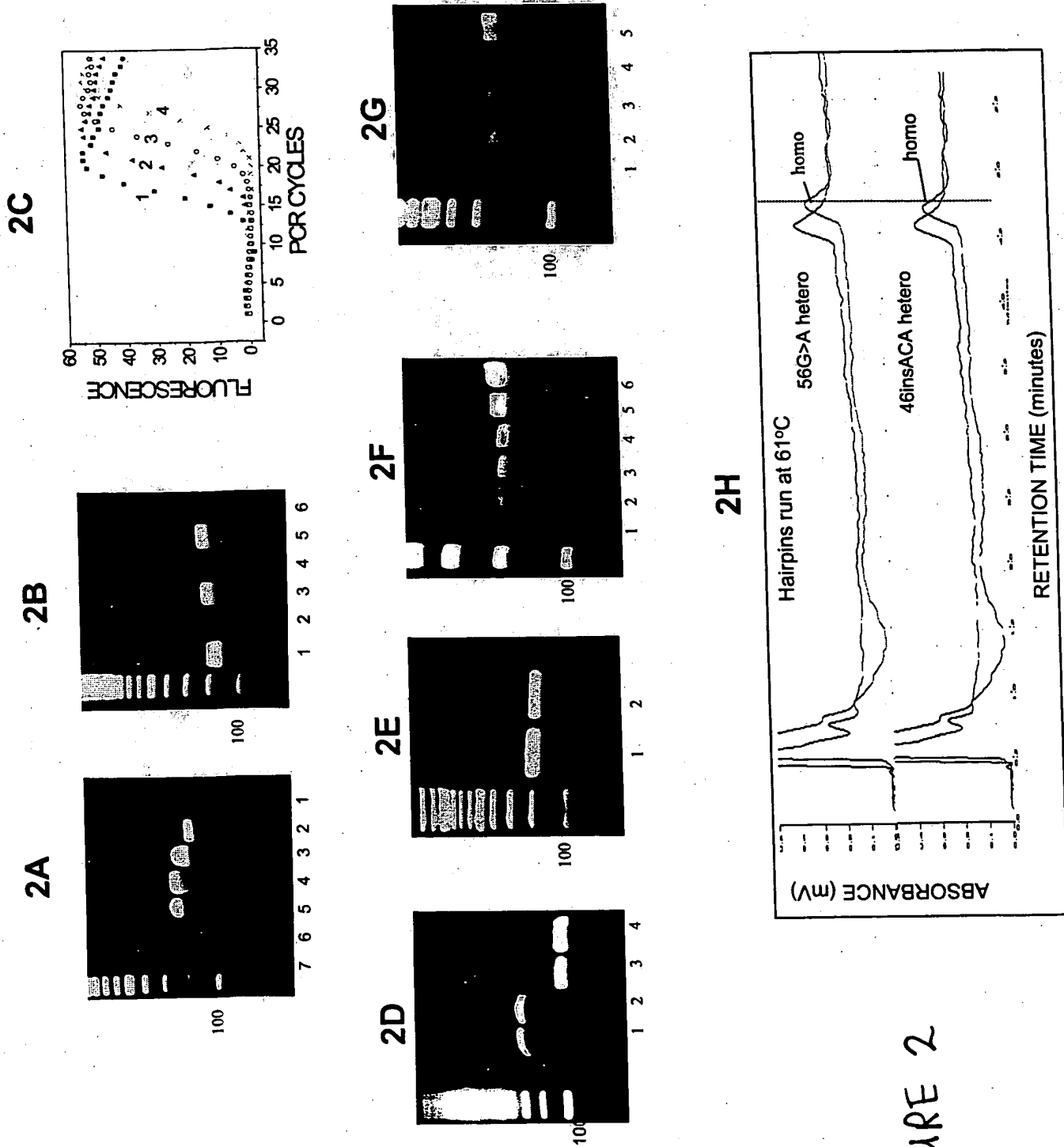


FIGURE 2

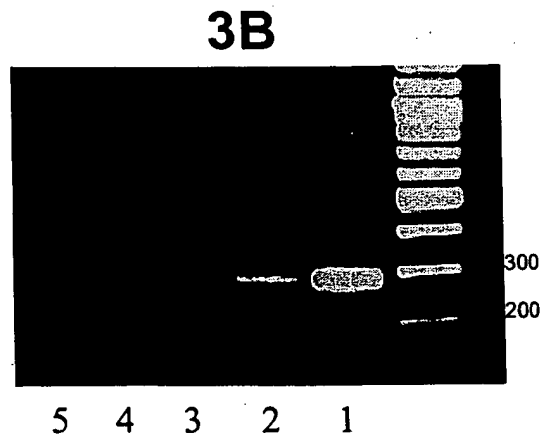
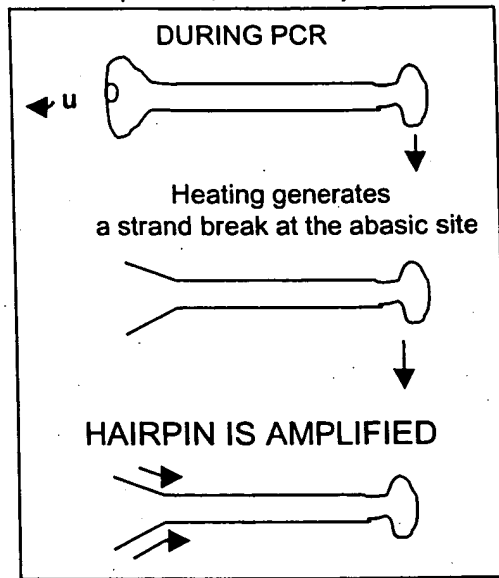
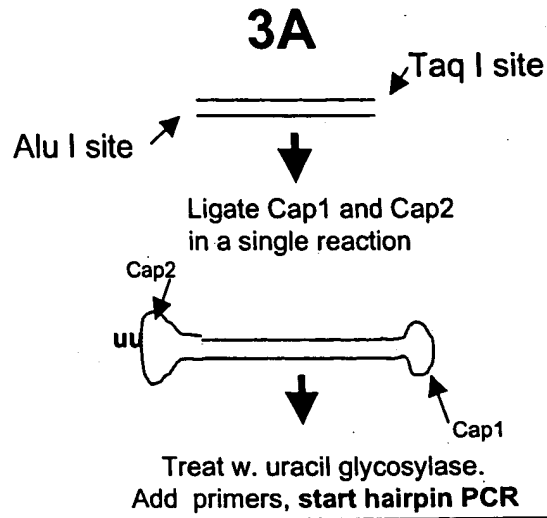


FIGURE 3

FIGURE 4

Figure 4A

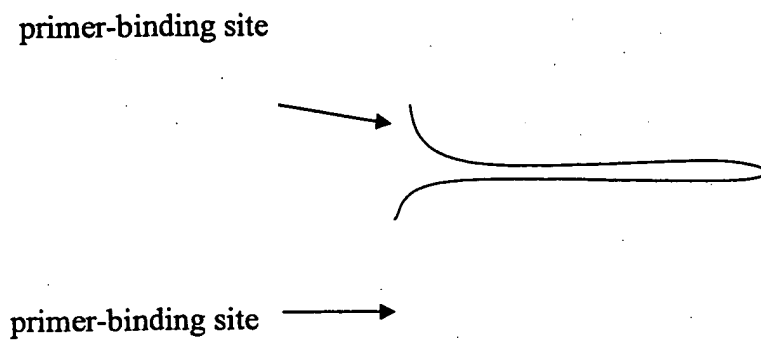
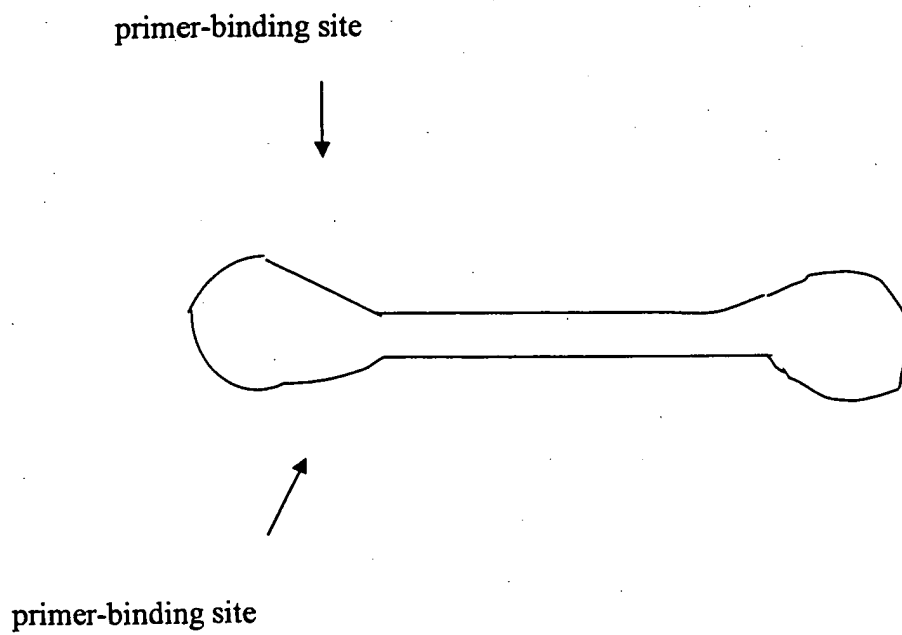
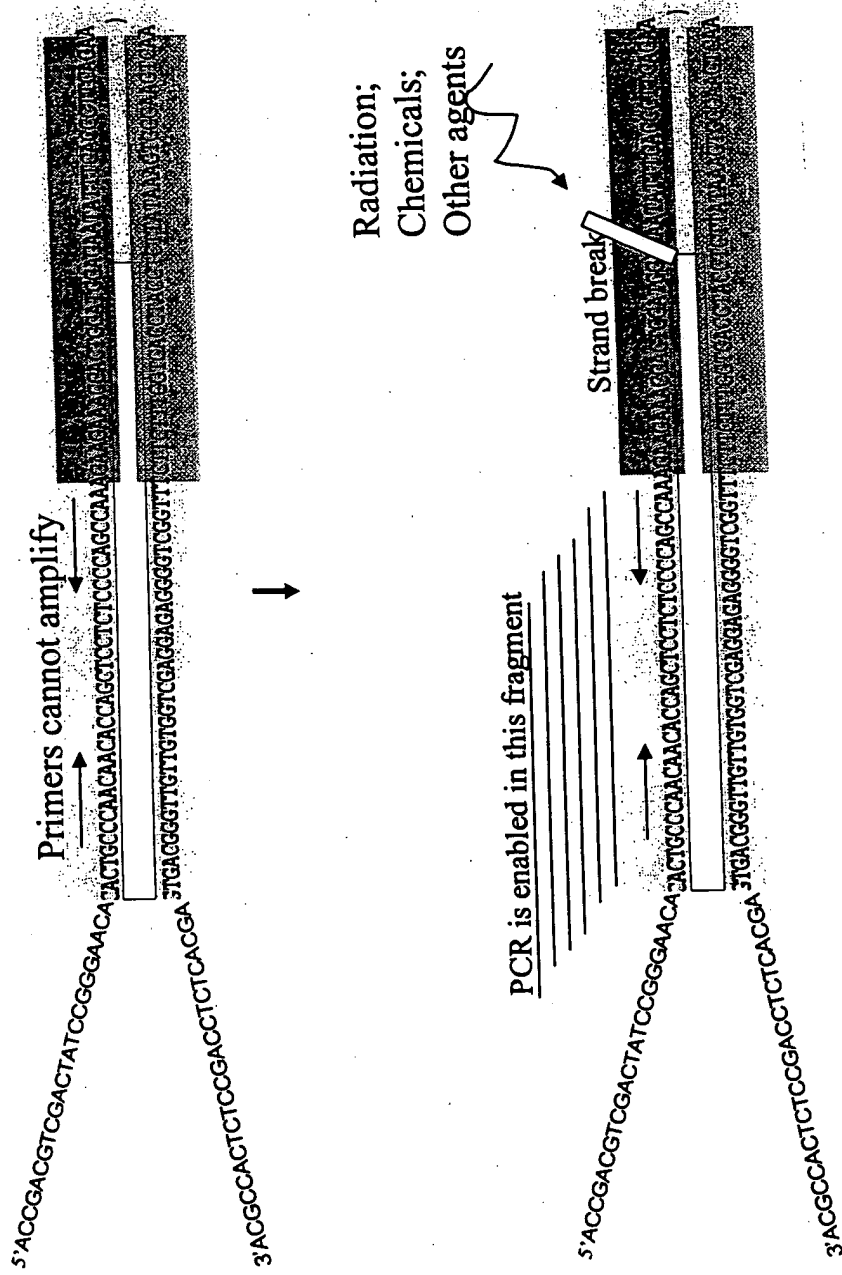


Figure 4B



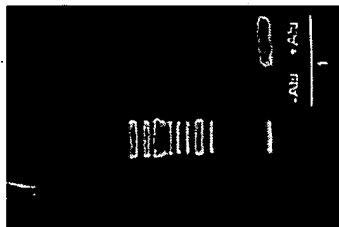
**Figure 5: Use of hairpin-shaped DNA as a detector for radiation and/or chemical exposures**



A

5' CTGCCGAGTTCCTGCTTTGAGATGCTGTTGAG  
3' GACGGCTCAACCACAAGTTCCTATCAGCTGCA

B



C

5' ATTTAAATGTTTAAACACGCGGTGACTTAACAGGCGCGCCTTAACTAGTGCCTTAG  
3' GTACTAAATTTACAAATTTGTGCGCCACTGAATTGTCCGCGCGGAATTGAAAGTCCGATG

D

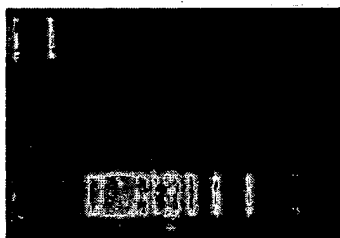


FIGURE 6